



AQUAPANEL® Cement Board Indoor is PROVEN in countless Wellness Centre applications such as washrooms, showers, saunas and swimming pools.



Build on our strength

# Looking for a better way to build walls & ceilings in Wellness Centres?

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2008  
UAE / 10 - 01



AQUAPANEL®

Cement Board Indoor

Designing a Wellness Centre to meet a community's fitness and recreational needs requires careful consideration because of the many physical and technical building requirements. Building materials must be absolutely water-resistant or must be permanently protected from humidity. Electronic systems must be protected from moisture but must be accessible at all times. Planners need to consider an open building concept which allows for regular restructuring/refurbishment of the inside of the building. Add to that the need for impact-resistance in certain areas, and technical considerations such as insulation, noise protection and fire resistance, and you have a complex project which was traditionally fulfilled using concrete or brick-and-block construction methods.

Now all these issues can be addressed by a drylining solution – AQUAPANEL® Cement Board Indoor from Knauf USG Systems. It is the perfect drylining system for walls and ceilings in Wellness Centres. It combines the advantages of cement board technology with those of a dry panelling system.

- **Water resistance:** AQUAPANEL® Cement Board Indoor is 100% water-resistant so it will never rot or crumble. Even if water seeps behind the wall tiles, the tiles will never weaken or fall off.
- **Hygiene:** AQUAPANEL® Cement Board Indoor is resistant to mould and mildew which means it's a hygienic building material, especially in areas where there's a high throughput of people
- **Accessibility:** because it's a drylining system, access to in-wall pipes, cables and air-conditioning facilities is much easier for maintenance
- **Easy to install:** as a drylining system it's fast and easy to install and allows for more flexible construction.
- **Lighter:** when compared with traditional building materials
- **Flexible:** AQUAPANEL® Cement Board Indoor creates more design opportunities – panels can be used for ceiling constructions and curved walls as well as in wet areas of the building
- **Systems approach:** AQUAPANEL® Cement Board Indoor can be part of a larger drylining project in combination with other Knauf products where appropriate.

AQUAPANEL®

Cement Board Indoor

The ideal tile backing board for wet and humid areas



## AQUAPANEL® Cement Board Indoor

*Why is it so special?*

AQUAPANEL® Cement Board Indoor gives architects and contractors a proven tile backing board that offers significant performance advantages when used in damp and wet and humid areas.

### The ideal tile backing board for wet and humid areas

- A major advance in cement board technology
- 100% water-resistant – no swelling or disintegration or damage
- Resistant to mould and mildew
- Only one single layer of cement board required for ceramic coverings
- Supports up to 50 kg of tiling per square metre of wall
- Resistant to deflection and impact
- Stable and strong Portland cement construction
- Non-combustible



**AQUAPANEL®** Cement Board Indoor

## AQUAPANEL® Cement Board Indoor

*more design opportunities*

### The ideal tile backing board for wet and humid areas

AQUAPANEL® Cement Board Indoor is 100% water resistant and resistant to mould and mildew.



### Impact resistant for walls and ceilings

AQUAPANEL® Cement Board Indoor can be used for ceilings in areas of the building where humidity is high. It can be used with Knauf acoustic plaster.



### Ideal for curved walls

AQUAPANEL® Cement Board Indoor can easily be curved for applications such as arches and curved wall features.

Board size: 1200/2400/1250/2500 x 900 mm  
Minimum bending radius  $\geq$  3m

Strip size: 1200/2400/1250/2500 x 300 mm  
Minimum bending radius  $\geq$  1m



### Your perfect partner

Knauf USG Systems' vision is to inspire people to create building advantages with cement board. We have many years of experience in working with architects and contractors in Wellness Centres. Take advantage of this experience and call us to discuss your specific project needs.

Also contact us for details of specific constructions, installation advice, or to obtain a copy of the AQUAPANEL® Cement Board Indoor brochure.

## AQUAPANEL® Cement Board Indoor

*perfect for Wellness Centres*

### THE DRYLINING SYSTEM FOR WET AND DAMP AREAS

## Proven protection

*against moisture ingress*

Drylining has obvious benefits. It's easier and faster than using brick and block. And there are no constraints on choosing the surface finish. However, when you combine drylining techniques with the properties of AQUAPANEL® Cement Board Indoor, you have the perfect product for wet and damp areas.

AQUAPANEL® Cement Board Indoor is the preferred choice for Wellness Centres in areas ranging from changing rooms to washrooms, swimming pools and saunas. It can also be used in areas at risk from masonry damp and ground damp (e.g. cellars).

AQUAPANEL® Cement Board Indoor has been proven in numerous tests.

### 100% water-resistant

If moisture seeps through a tiny crack in the tiles it could cause the backing board to rot, swell and/or disintegrate – causing tiles to fall off. But there's no such danger with AQUAPANEL® Cement Board Indoor: it is 100% water-resistant. Under water impact, AQUAPANEL® Cement Board Indoor displays only extremely slight and system-safe changes in form. The mechanical characteristics remain the same.

### Resistant to mould growth

AQUAPANEL® Cement Board Indoor is a hygienic building material, especially in areas where there are lots of people. Because the cement board is resistant to mould and mildew, it can be used in areas where there is a high level of damp. This was confirmed by the Institute for Building Biology in Rosenheim in its report no. 3006 - 214.

### Very good vapour diffusion behaviour

This ensures that the panel shows no vapour blocking behaviour. This is of considerable importance for a built-up physically optimal layer composition, as highlighted by the Institute for Building Biology in Rosenheim in its report no. 3006 - 214.

### Water resistance value of AQUAPANEL2 Cement Board Indoor

Material thickness	Weight	Dry density	Water vapour diffusion resistance	Sd	Thermal conductivity
12.5 mm	15 kg/m <sup>2</sup>	1050 kg/m <sup>3</sup>	$\mu = 30$	0.375 m	0.3 W/m <sup>2</sup> K

## Choose the right board

*for every application*

Despite the many physical and technical building requirements, it is still possible to use drylining techniques throughout the Wellness Centre. Traditional drylining products from Knauf can now be combined with AQUAPANEL® Cement Board Indoor for wet areas.

### Dry areas

Entrance halls, reception areas, eating areas  
Use Knauf gypsum board.



### Damp rooms

Partition walls, changing rooms  
Use Knauf moisture-resistant plasterboard.

### Wet areas

Swimming pools, communal showers & washrooms, steam saunas  
Use AQUAPANEL® Cement Board Indoor and AQUAPANEL® approved accessories for walls and ceilings. AQUAPANEL® Cement Board Indoor is 100% water-resistant and is an ideal substrate for all ceramic coverings.

